## **Refine Search**

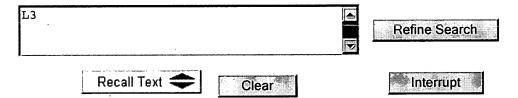
## Search Results -

Terms	Documents
L2 AND (test ADJ case)	33

US Pre-Grant Publication Full-Text Database
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## **Search History**

DATE: Monday, August 22, 2005 Printable Copy Create Case

Set Nam side by side	ne Query de	Hit Count	Set Name result set
DB=U	USPT; PLUR=NO; OP=OR		
<u>L3</u>	L2 AND (test ADJ case)	33	<u>L3</u>
<u>L2</u>	L1 and (web or internet or (world ADJ wide ADJ web))	172	<u>L2</u>
L1	software ADJ testing	493	<u>L1</u>

**END OF SEARCH HISTORY** 

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L3: Entry 1 of 33

File: USPT

Aug 9, 2005

US-PAT-NO: 6928393

DOCUMENT-IDENTIFIER: US 6928393 B2

TITLE: Method and system for supporting negative testing in combinatorial test case

generators

DATE-ISSUED: August 9, 2005

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Czerwonka; Jacek A. Redmond WA

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Microsoft Corporation Redmond WA 02

APPL-NO: 10/ 464986 [PALM]
DATE FILED: June 18, 2003

INT-CL: [07] G06F01136

US-CL-ISSUED: 702/186; 702/119, 702/120, 702/124, 714/38, 703/22, 717/124 - US-CL-CURRENT: 702/186; 702/119, 702/120, 702/124, 703/22, 714/38, 717/124

FIELD-OF-SEARCH: 702/186, 702/119, 702/120, 702/123, 702/182, 702/183, 702/185, 702/108, 717/124, 717/126-128, 717/131, 717/132, 717/135, 714/38, 714/47, 714/48,

712/227, 703/22

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

PAT-NO ISSUE-DATE PATENTEE-NAME US-CL

5784553 July 1998 Kolawa et al. 714/38

<u>5812436</u> September 1998 Desgrousilliers et al. 702/108

6321376 November 2001 Willis et al. 717/124

ART-UNIT: 2857

PRIMARY-EXAMINER: Wachsman; Hal

ATTY-AGENT-FIRM: Law Offices of Albert S. Michalik, PLLC

## ABSTRACT:

Provided is a system and method for black-box testing of software using positive and negative test cases with N-way combinations of parameter values. An original model comprising valid and invalid values is modified in a first phase, by generating exclusions (constraints) for pairs of invalid values. A first suite of test cases is generated from the modified model, and positive test cases eliminated, creating a first test suite with only negative tests. In a second phase, the original model is modified by eliminating invalid values, from which a second test suite having only positive test cases for all valid N-way combinations is generated. Merging the two test suites provides a suite of positive and negative test cases that test software with N-way combinations of values, in which each negative test case has only one invalid value.

20 Claims, 13 Drawing figures

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